

Ultrasonic water meter

Ultrasonic water meter is intelligent measuring instruments by the temperature sensor, flow sensors and calculators. Calculator used the sensor and through the water of time difference to collect temperature differences and sound waves to complete accurate measurement of water flow. And it can provide important application and data for many applications in the pipeline.

Mainly used for water metering and monitoring water flow, such as domestic water, central air conditioning systems, equipment, etc.

Function :

1. Support LoRaWAN,NB-IOT,WIFI,M-BUS,RS485 communication
2. Support wireless automatic metering reading.
3. Remote control valve
4. Measure the cumulative flow
5. Water metering data history storage locally
6. The water meter measurement data and the remaining battery capacity are automatically uploaded to the server platform and displayed regularly.
7. Low battery capacity alarm
8. Valve failure alarm
9. Screen display battery quantity, water balance, valve status
10. Built-in antenna (spring/soft antenna)
11. External antenna (used under ground)
12. The button triggers the escalation event.



Deliver condition :

1. Size:DN15-DN500
2. Body:Brass
3. Max work pressure:PN16.
4. Protection class:IP68
5. Communication methods: Lorawan, NB-IOT,WIFI,GPRS,M-BUS,RS485
6. Battery life:10 years(DN15~DN40) / 6-8years(DN50~DN500)
7. R: R250,R400
8. Water temperature:T30/T90
9. Standards:ISO4064.

Remote Communication types :

Communication	LoRaWAN	NB-IoT	GPRS	WIFI	M-BUS	RS485
External transmission	LoRaWAN	Wireless Communication (work at TCP/UDP)				RS485 4wire
Antenna	Soft Antenna		Spring Antenna			/
Agreement	Big-end mode HEX					Modbus RTU
Communication	Low frequency High frequency	NB-IoT	GPRS	2G/4G	M-BUS	RS485
Pulse singal	/	/	3-wire GNDS1 S2			
Screen display	LCD button switch screen			LCD magnet switch screen		
Communication distance	2-3km	2-3km	2-3km	<10km	/	/
Wire length /line order	/	/	/	/	/	Wire length 1m Line order : 4wire

DN(mm)	15	20	25	32	40
Starting Flow (m ³ /h)	0.002	0.004	0.006	0.01	0.025
Qs (overload flow rate) (m ³ /h)	3.125	5	7.875	12.5	20
Qp (permanent flow rate) (m ³ /h)	2.5	4	6.3	10	16
Qt (transition flow rate) (m ³ /h)	0.016	0.025	0.040	0.064	0.100
Qmin (minimum flow rate) (m ³ /h)	0.010	0.016	0.025	0.040	0.064
R=Qp/Qm (flow range) (m ³ /h)	250				
Min instantaneous flow reading (m ³ /h)	0.001				
Max instantaneous flow reading (m ³ /h)	99.999				
Max cumulative flow reading	99999.999				

Shengda Water Meter since 1995

Established in 1995, Shengda Water Meter Co., Ltd is one of leading manufacturer of water meters and flow meters in China. The company also provides total solutions for smart flow metering, control, telemetry and smart water meter reading system.



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